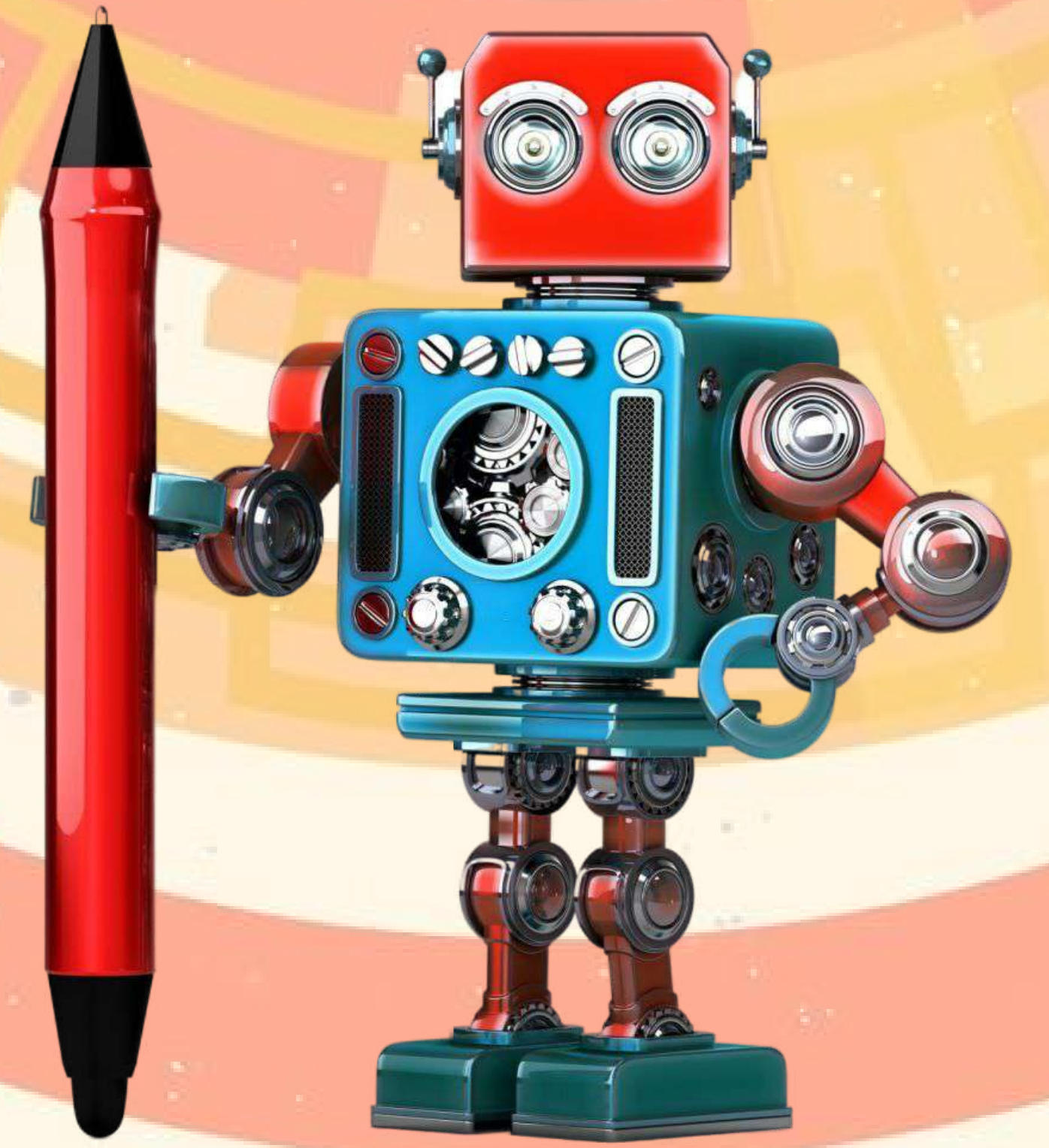


ROBOTICS SYLLABUS



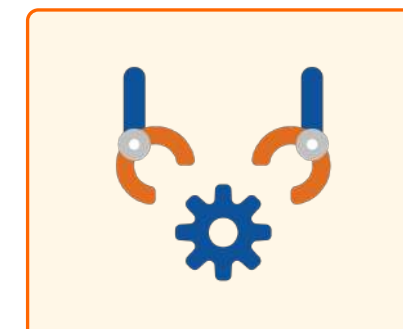
School Robotics & Coding

Sessions 1 - 7

1

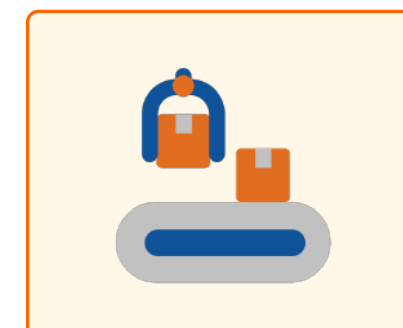
Robotics Mechanism

- ✓ Electronic
- ✓ Mechanism
- ✓ Algorithms
- ✓ Functioning



Robotics Components

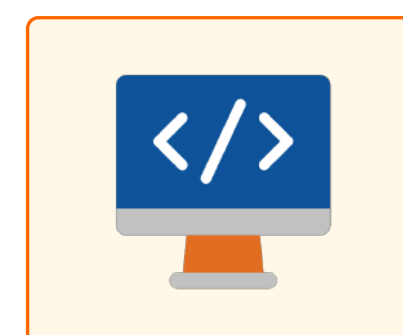
- ✓ Robotics Parts
- ✓ Interfaces
- ✓ Protocols
- ✓ Specifications



2

Robotics Programming

- ✓ Programming
- ✓ Algorithm
- ✓ Logics
- ✓ Programming Models



Robotics Hardware

- ✓ Mechanism
- ✓ Interfaces
- ✓ Functioning
- ✓ Logics



3

Robotics Applications

- ✓ Robot Basics
- ✓ Applications
- ✓ Data Exchange
- ✓ Transrecieve Modelling



Robotics Simulation

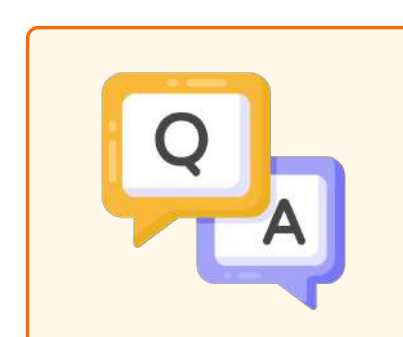
- ✓ Model Design
- ✓ Testing s/w
- ✓ Error Simulation
- ✓ Virtual Model Designing



4

Quiz Competition Design

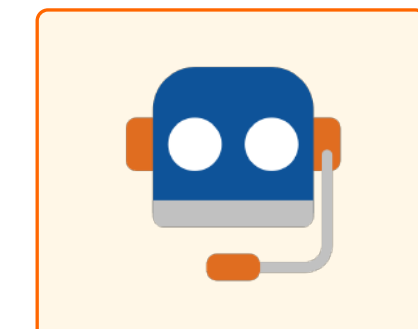
- ✓ Design quiz competition and perform fastest finger first



5

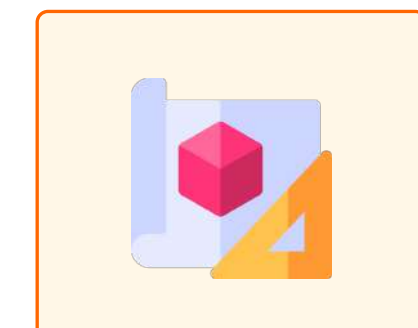
Robotics Communication

- ✓ Serial Interface
- ✓ Connecting h/w
- ✓ Data Exchange
- ✓ Transrecieve Modelling



Robotics Project Design

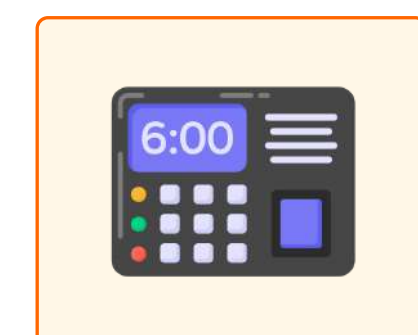
- ✓ Logics
- ✓ Algorithm
- ✓ Mechanism
- ✓ Interface



6

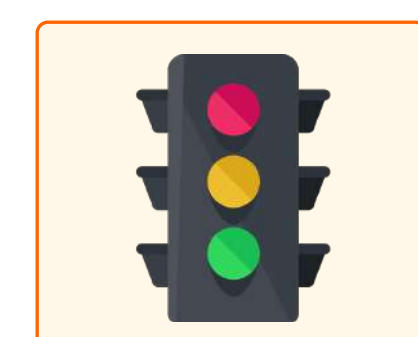
Student Attendance System

- ✓ Design digital students attendance system to replace manual attendance



Traffic Lights Designing

- ✓ Design traffic light and understand its working with logic



7

Electronic Voting Machine

- ✓ Design electronic voting machine and understand the voting mechanism



Digital Notice Board Design

- ✓ Design a digital notice board and display message remotely

